CLAIMS

What is claimed is:

- 1. A laser level disposable on a first reference surface comprising:
 - a housing;

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- 5 a pendulum pivotably connected to the housing;
 - a first laser diode disposed on the pendulum for emitting a first laser beam along a first path;
 - a first lens disposed on the pendulum in the first path for converting the first laser beam into a first planar beam, the first planar beam forming a first line on the first reference surface;
 - a second laser diode disposed on the pendulum for emitting a second laser beam along a second path; and
 - a second lens disposed on the pendulum in the second path for converting the second laser beam into a second planar beam, the second planar beam forming a second line on the first reference surface,
 - wherein the first and second lines are substantially perpendicular and nonintersecting.
 - 2. The laser level of Claim 1, further comprising a lock mechanism for fixing the position of the pendulum relative to the housing.
- 3. The laser level of Claim 2, wherein the lock mechanism comprises a pivotable lock movable between a first position contacting the pendulum and a second position bypassing the pendulum.

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- 4. The laser level of Claim 3, further comprising a spring biasing the lock towards the first position.
- 5. The laser level of Claim 3, further comprising an actuator for moving the lock between the first and second positions.
- 5 6. The laser level of Claim 1, wherein the housing has at least one vertical reference surface.
 - 7. The laser level of Claim 6, wherein the first beam is substantially parallel to the vertical reference surface.
- 8. The laser level of Claim 6, wherein the second beam is substantially perpendicular to the vertical reference surface.
 - 9. The laser level of Claim 1, wherein the housing has at least one horizontal reference surface.
 - 10. The laser level of Claim 9, wherein the second beam is substantially parallel to the horizontal reference surface.
- 15 11. The laser level of Claim 9, wherein the first beam is substantially perpendicular to the horizontal reference surface.
 - 12. A laser level disposable on a first reference surface comprising:
 - a housing having a substantially vertical reference surface;
- a first laser diode disposed within the housing for emitting a first laser beam along a 20 first path;
 - a first lens disposed within the housing in the first path for converting the first laser beam into a first planar beam, the first planar beam forming a first line on the first

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reference surface, the first line being substantially parallel to the vertical reference surface;

a second laser diode disposed within the housing for emitting a second laser beam along a second path; and

a second lens disposed within the housing in the second path for converting the second laser beam into a second planar beam, the second planar beam forming a second line on the first reference surface, the second line being substantially perpendicular to the vertical reference surface.

- 13. A laser level disposable on a first reference surface comprising:
- a housing having a substantially horizontal reference surface;

a first laser diode disposed within the housing for emitting a first laser beam along a first path;

a first lens disposed within the housing in the first path for converting the first laser beam into a first planar beam, the first planar beam forming a first line on the first reference surface, the first line being substantially perpendicular to the horizontal reference surface;

a second laser diode disposed within the housing for emitting a second laser beam along a second path; and

a second lens disposed within the housing in the second path for converting the second laser beam into a second planar beam, the second planar beam forming a second line on the first reference surface, the second line being substantially parallel to the horizontal reference surface.

- 14. An angle measuring device disposable on a first reference surface comprising:
 - a body having a scale thereon;
 - a housing rotatably disposed on the body;
 - a first laser diode disposed within the housing for emitting a first laser beam along a
- 5 first path; and
 - a first lens disposed within the housing in the first path for converting the first laser beam into a first planar beam, the first planar beam forming a first line on at least one of the first reference surface and the scale.

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